

## Product datasheet for **AR09403PU-L**

### PGD / PGDH (1-483, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	PGD / PGDH (1-483, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSSLVPRGSH</u> MAQADIALIG LAVMGQNLIL NMNDHGFVVC AFNRTVSKVD DFLANEAKGT KVVGAQSLKE MVSKLKKPRR IILLVKAGQA VDDFIEKLVP LLDTGDIID GGNSEYRDTT RRCRDLKAKG ILFVGSGVSG GEEGARYGPS LMPGGNKEAW PHIKTIFQGI AAKVGTGPEC CDWVGDEGAG HFVKMVHNGI EYGDMQLICE AYHLMKDVLG MAQDEMAQAF EDWNKTELDS FLIEITANIL KFQD TDGKHL LPKIRDSAGQ KGTGKWT AIS ALEYGVPVTL IGEAVFARCL SSLKDERIQA SKKLGKPKF QFDGDKSFL EDIRKALYAS KIISYAQGM LLRQAATEFG WTLNYGGIAL MWRGGCIIRS VFLGKIKDAF DRNPELQNL LDDFFKSAVE NCQDSWRRAV STGVQAGIPM PCFTTALSFY DGYRHEMLPA SLIQAQRDYF GAHTYELLA K PGQFIHTNWT GHGGTVSSSS YNA
Tag:	His-tag
Predicted MW:	55.3 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 0.1 M NaCl, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human PGD protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_001291380</u>
Locus ID:	5226
UniProt ID:	<u>P52209, B4E2U0</u>



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Cytogenetics: 1p36.22

Synonyms: 6PGD

**Summary:** 6-phosphogluconate dehydrogenase is the second dehydrogenase in the pentose phosphate shunt. Deficiency of this enzyme is generally asymptomatic, and the inheritance of this disorder is autosomal dominant. Hemolysis results from combined deficiency of 6-phosphogluconate dehydrogenase and 6-phosphogluconolactonase suggesting a synergism of the two enzymopathies. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2015]

**Protein Pathways:** Glutathione metabolism, Metabolic pathways, Pentose phosphate pathway

### Product images:

